**EXHIBIT B** 

AUG 0 4 2003
TECH CENTER 1600/2900

**PATENT** 

## PENDING CLAIMS

- 1. A compound comprising uricase covalently bonded via a linking group to polyethylene glycol, wherein the polyethylene glycol has a total weight average molecular weight of about 15,000 to about 30,000, and wherein the linking group is selected from the group consisting of a succinimide group, an amide group, an imide group, a carbamate group, an ester group, an epoxy group, a carboxyl group, a hydroxyl group, a carbohydrate, a tyrosine group, a cysteine group, a histidine group and combinations thereof.
- 2. The compound of claim 1, wherein said linking group is a succinimide group.
- 3. The compound of claim 2, wherein said succinimide group is succinimidyl succinate, succinimidyl propionate, succinimidyl carboxymethylate, succinimidyl succinamide, N-hydroxy succinimide or combinations thereof.
- 4. The compound of claim 3, wherein said succinimide group is succinimidal succinate, succinimidal propionate or combinations thereof.
- 5. The compound of claim 1, wherein said uricase is derived from a microorganism selected from the group consisting of *Asperigillus flavus*, *Candida utilis*, *Arthrobacter protoformiae*, and combinations thereof.
- 6. The compound of claim 5, wherein said microorganism is Asperigillus flavus.
- 7. The compound of claim 5, wherein said microorganism is Candida utilis.
- 8. The compound of claim 5, wherein said microorganism is Arthrobacter protoformiae.

- 9. The compound of claim 1 wherein the polyethylene glycol has an average molecular weight of about 20,000.
- 10. The compound of claim 1 wherein said uricase is covalently bonded to about 10 to about 25 polyethylene glycol molecules.
- 11. The compound of claim 1, wherein said uricase is covalently bonded to about 18 to about 22 polyethylene glycol molecules.
- 12. The compound of claim 1, wherein said uricase is covalently bonded to about 20 polyethylene glycol molecules.
- 13. (canceled)
- 14. (canceled)
- 15. (canceled)
- 16. (canceled)
- 17. (canceled)
- 18. (canceled)
- 19. (canceled)
- 20. (canceled)
- 21. The compound of claim 1 wherein polyethylene glycol is covalently attached to uricase at one or more lysine residues.

- 22. A method of enhancing the circulating half life of uricase comprising modifying said uricase by covalently bonding said uricase via a linking group to polyethylene glycol, wherein the polyethylene glycol has a total weight average molecular weight of about 15,000 to about 30,000, and wherein the linking group is selected from the group consisting of a succinimide group, an amide group, an imide group, a carbamate group, an ester group, an epoxy group, a carboxyl group, a hydroxyl group, a carbohydrate, a tyrosine group, a cysteine group, a histidine group and combinations thereof.
- 23. The method of claim 22 wherein the polyethylene glycol has an average molecular weight of about 20,000.
- 24. The method of claim 22, wherein said uricase is covalently bonded to about 10 to about 25 polyethylene glycol molecules.
- 25. The method of claim 22, wherein said uricase is covalently bonded to about 18 to about 22 polyethylene glycol molecules.
- 26. (canceled)
- 27. (canceled)
- 28. (canceled)
- 29. (canceled)
- 30. (canceled)
- 31. A method of reducing uric acid levels in a patient comprising administering to said patient a therapeutically effective amount of the compound of claim 1.

- 32. The method of claim 31, wherein said patient has hypouricemia.
- 33. The method of claim 31, wherein said polyethylene glycol has an average molecular weight of about 20,000
- 34. The method of claim 31, wherein said linking group is a succinimide group.
- 35. The method of claim 32, wherein said succinimide group is succinimidyl succinate, succinimidyl propionate, succinimidyl carboxymethylate, succinimidyl succinamide, N-hydroxy succinimide or combinations thereof.
- 36. A method of treating uric acid related disorders in a patient comprising administering to said patient a therapeutically effective amount of the compound of claim 1.
- 37. The method of claim 36, wherein said polyethylene glycol has an average molecular weight of about 20,000
- 38. (canceled)
- 39. A compound comprising uricase coupled to polyethylene glycol, wherein the polyethylene glycol has a total weight average molecular weight of about 15,000 to about 30,000.
- 40. The compound of claim 39 wherein the polyethylene glycol has an average molecular weight of about 20,000.
- 41. The compound of claim 39, wherein said uricase is covalently bonded to about 10 to about 25 polyethylene glycol molecules.

- 42. The compound of claim 39, wherein said uricase is covalently bonded to about 18 to about 22 polyethylene glycol molecules.
- 43. The compound of claim 39, wherein said uricase is coupled to about 20 polyethylene glycol molecules.
- 44. (canceled)
- 45. (canceled)
- 46. (canceled)
- 47. (canceled)